M. SC. (APPLIED STATISTICS) (MSCAST)

Term-End Examination June, 2025

MST-024: DATA ANALYSIS WITH PYTHON

Time: 2 Hours Maximum Marks: 25

Note: Question No. 1 is compulsory. Attempt any two questions out of the remaining question nos. 2 to 4. Use of scientific calculator (non-programmable) is allowed. Symbols have their usual meanings.

1. Answer the following:

(a) Write the output of the following Python code:

mylist = [1, 2, 3, 4, 5] print (mylist [1])

- (c) Create a function by the name 'sortage' to sort the age of the students by
 providing 'name' and 'age' of five
 students as input.
- 2. (a) What are the Python toolkits for GUI?

 Also, write their important features.

6

- (b) Explain the way of reading and writing data in Python. 4
- 3. (a) Describe the 'for' statement with an example.
 - (b) What are the built-in functions in Python and how do they differ from the user-defined functions? Provide examples of each.

4.	(a)	List some popular Python libraries
		used for Data Analysis.
	(b)	Define Pandas in Python.
	(c)	Mention a few key applications of the
		Panda library.
	(d)	What are the different ways in which a
		data frame can be created in Pandas ?
		r

 $\times \times \times \times \times$